

## PRODUCT INFORMATION

Motility Test Medium

Cat. No. M13-121

### DESCRIPTION

Motility Test Medium is a modification of the original agar formula used to detect bacterial motility. The medium is inoculated by stabbing through the center of the prepared medium. Motility is observed macroscopically by observing growth radiating from the original stab. Certain strains demonstrate motility by diffusing throughout the medium while others only show a small amount of diffusion along the lateral line of inoculation. Temperature of incubation can also be a factor in demonstrating motility as certain bacteria such as *Yersinia enterocolitica* show better motility at 25.0°C.

### FORMULA (g/L)

Beef Extract	3.0 g	Sodium Chloride	5.0 g
Pancreatic Digest of Gelatin	10.0 g	Agar	4.0 g

Final pH: 7.3 ± 0.2 at 25 °C

\*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

### PREPARATION

Mix 22 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light beige in color.
2. Visually the prepared medium is yellow-beige and either clear or with a trace of haziness.
3. Expected cultural response after 18-24 hours at 35 ± 2 °C.

ORGANISM	RESULT	MOTILITY
<i>Enterobacter aerogenes</i> ATCC 13048	Good Growth	+
<i>Enterococcus faecalis</i> ATCC 29212	Good Growth	-
<i>Escherichia coli</i> ATCC 25922	Good Growth	+
<i>Klebsiella pneumoniae</i> ATCC 13883	Good Growth	-
<i>Salmonella typhimurium</i> ATCC 14028	Good Growth	+
<i>Shigella flexneri</i> ATCC 12022	Good Growth	-
<i>Staphylococcus aureus</i> ATCC 25923	Good Growth	-

### STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.